Figure 1

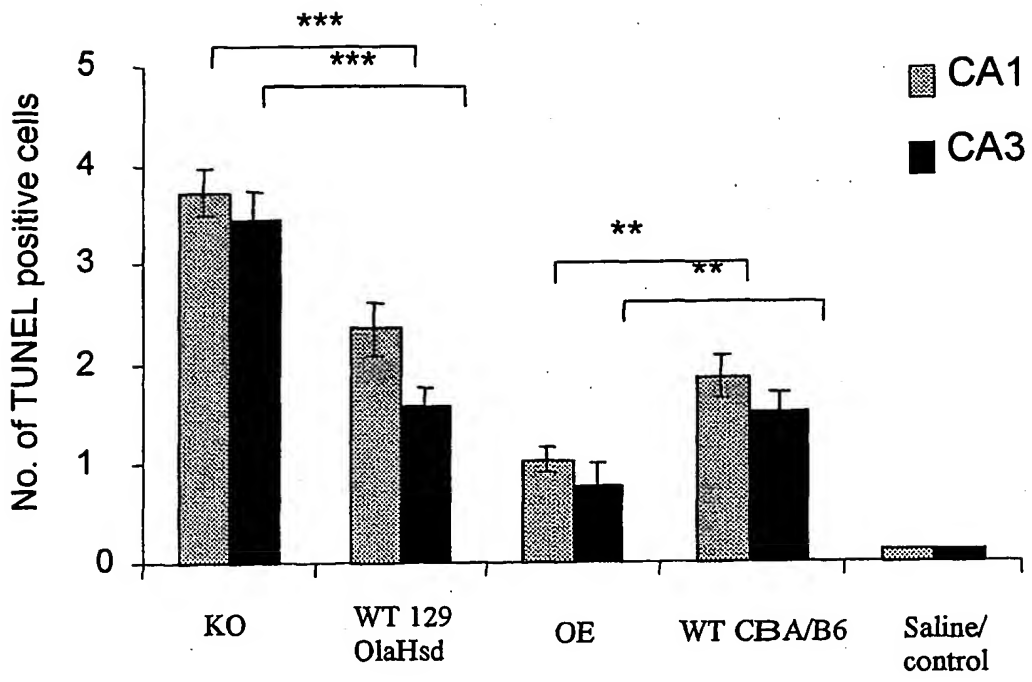

***
***
**
**
No. of TUNEL positive cells
0
1
2
3
4
5
CA1
CA3
KO
WT 129 OlaHsd
OE
WT CBA/B6
Saline/ control

Figure 2

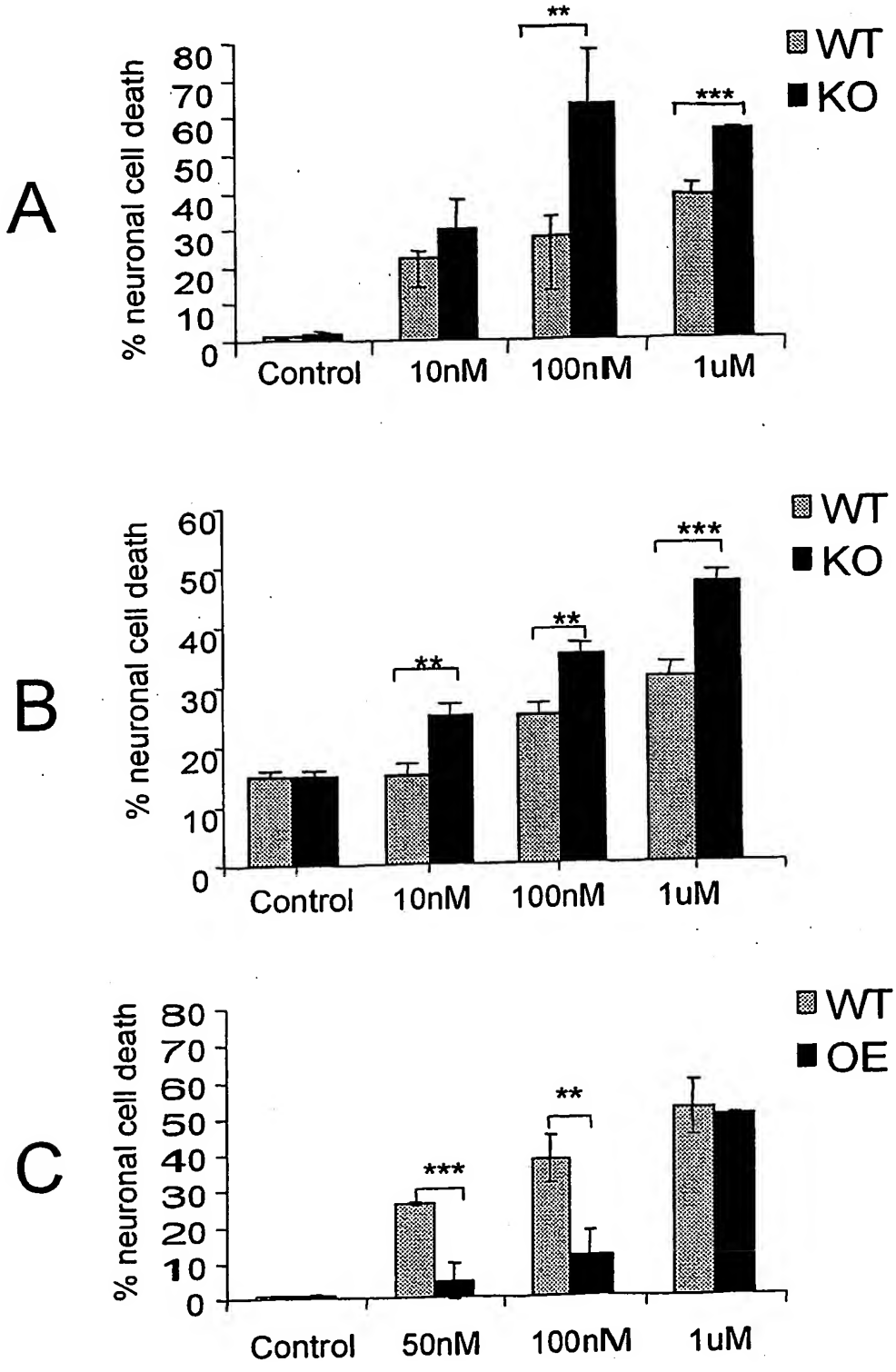

A
% neuronal cell death
80
70
60
50
40
30
20
10
0
Control
10nM
100nM
1uM
**
***
WT
KO
B
% neuronal cell death
60
50
40
30
20
10
0
Control
10nM
100nM
1uM
**
**
***
WT
KO
C
% neuronal cell death
80
70
60
50
40
30
20
10
0
Control
50nM
100nM
1uM
***
**
WT
OE

Figure 3

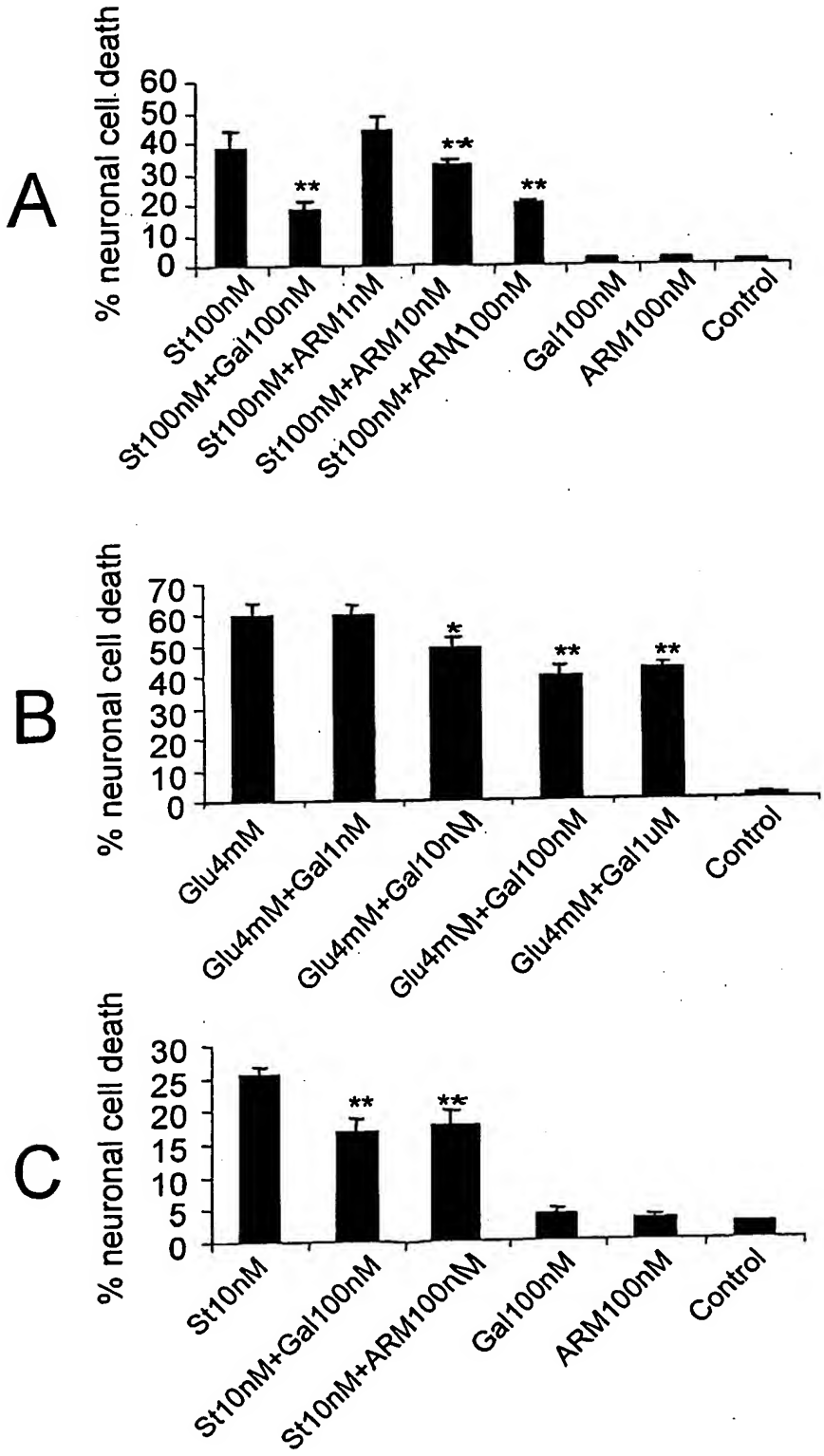
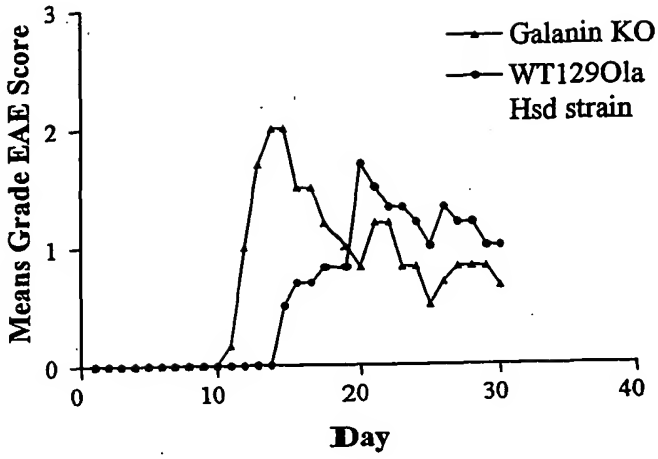
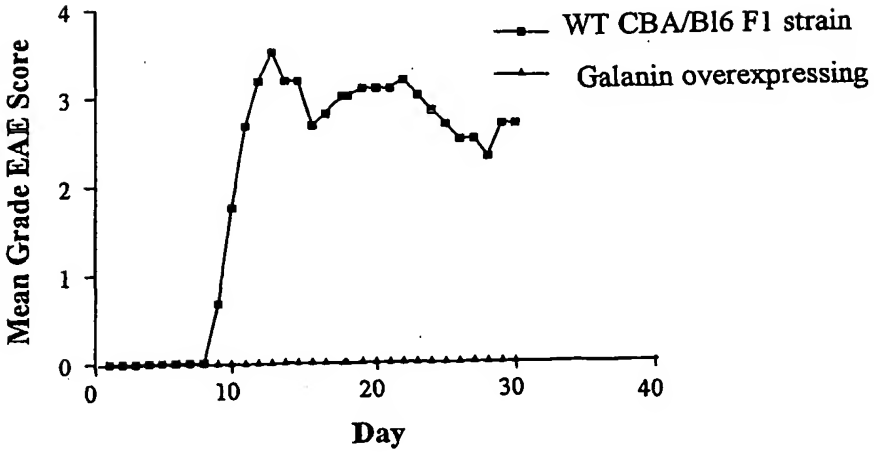

A
% neuronal cell death
60
50
40
30
20
10
0
**
**
**
St100nM
St100nM+Gal100nM
St100nM+ARM1nM
St100nM+ARM10nM
St100nM+ARM100nM
Gal100nM
ARM100nM
Control
B
% neuronal cell death
70
60
50
40
30
20
10
0
*
**
**
Glu4mM
Glu4mM+Gal1nM
Glu4mM+Gal10nM
Glu4mM+Gal100nM
Glu4mM+Gal1uM
Control
C
% neuronal cell death
30
25
20
15
10
5
0
**
**
St10nM
St10nM+Gal100nM
St10nM+ARM100nM
Gal100nM
ARM100nM
Control

Figure 4

A


Means Grade EAE Score
Day
Galanin KO
WT129Ola
Hsd strain
0
1
2
3
0
10
20
30
40

B


Mean Grade EAE Score
Day
WT CBA/Bl6 F1 strain
Galanin overexpressing
0
1
2
3
4
0
10
20
30
40